

Magnesium Aluminum Silicate

Specification Sheet

Description: Magnesium aluminum silicate is a water-washed natural smectite clay that hydrates easily. Used in high pH personal care compositions such as depilatory, waving and hair relaxer products. Fine off-white to tan-greenish powder, odorless, pH 9.5 (w/w 5%). Viscosity about 500cps (4% solution). Insoluble but dispersible in water.

CAS: 12199-37-0

INCI Name: Magnesium aluminum silicate

Benefits:

- Used as a rheological modifier and binder in various cosmetic preparations, especially in products with a high pH
- Stabilizes both oil-in-water and water-in-oil emulsions at low concentrations (typically at 1-2%) even if containing anionic or nonionic surfactants. The smectite colloidal structure effectively keeps the internal phase droplets suspended and separated and reduces the tendency of emulsions to thin out and break at elevated temperatures.
- Improves significantly skin feel
- Has thickening and acts synergistically with common thickeners like xanthan gum and HE cellulose
- Has suspending properties

Use: Add to water phase of formulas. Best when added to hot water (75°C) to reduce the hydrating time (15min vs 45min). Use a homogenizer for fastest results. Typical use level 0.5-3%. For external use only.

Applications: Hair care (shampoos, conditioners & styling products), depilatories, shower gels, creams, lotions, make-up, shaving creams, deodorants.

Country of Origin: USA

Raw material source: Smectite clay

Manufacture: Magnesium aluminum silicate is obtained from naturally occurring smectite clay which is water-washed and powdered to optimize purity and performance.

Animal Testing: Not animal tested

GMO: GMO-free (does not contain plant-derived components)

Vegan: Does not contains animal-derived components